

ABSTRACT

5 A security gate operating system and method are disclosed, which may
comprise a security gate capable of motion between a closed position and an open
position; a drive mechanism attached to the security gate and adapted to provide a
driving force to the security gate to move the security gate between the closed
position and the open position; an electrical drive motor having a drive shaft
connected directly to the drive mechanism without a reduction gear between the
drive motor and the drive mechanism. The method and system may also comprise
10 the drive motor being a reluctance motor including a switched reluctance motor,
and including also a three phase switched reluctance motor. The method and
system may also comprise a drive chain operatively connected to the security gate;
and a drive sprocket attached directly to the shaft of the drive motor, with the drive
sprocket in operative connection to the drive chain. The method and system may
15 also comprise at least one drive arm directly connected to the drive motor shaft and
operatively connected to the security gate.